JOINT INFORMATION ENGINEERING ORGANIZATION

Parkridge III, 10701 Parkridge Boulevard, Reston, VA 20191

SYMBOLOGY STANDARDS MANAGEMENT COMMITTEE DIRECTIVE

SSMC NO: 2-01			Date: May 24, 2001
CP No: MIL00-03		Title: Add S	Symbol, Call For Fire Zone
Originator, Name and Army/PM FATDS	Address:		
SSMC Action: Approved Approved with Cha Withdrawn Deferred Declared Substanti By: Disapproved Testing Required Prior to Decis Subsequent to Allied Coordination	ve ion Decision		Decision: Approved as modified (MIL 00-03A), in accordance with the Fire Support Hierarchy Analysis change Option C, Modification 1 data.
Votes Cast/Proposed (Change		
Approve Disapprove	_	rmy	
	N N N N N N N N N N	avy IC F IMA INC EO	
		SA IA	Chairperson
			Anneliese Martin (Signature)

SYMBOLOGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM											
CHANGE PROPOSAL NUMBER MIL00-03A											
ORIGINATOR	ORIGINATOR SPONSOR DATE RECEIVED DATE OF ACTION										
PM FATDS	ARMY	1 September 2000	May 24, 2001								
CHANGE PROPOSAL TITLE											
ADD NEW SYMBOL, CALL FOR FIRE ZONE											
SUGGESTED CHANGE											

The Fire Support community has a requirement to add a new symbol to MIL-STD-2525B.

- 1. The purpose of the radar Call For Fire (CFF) Zone symbol is to graphically display radar Call For Fire Zones to commanders in the Common Operational Picture (COP)/Common Tactical Picture (CTP).
- 2. Recommend adding to hierarchy item 2.X.4, Fire Support, under the "Areas" hierarchy, 2.X.4.3, figure B-17, and table B-IV.

OVERVIEW

Currently, the standard does not contain a symbol depicting radar CFF Zones. The purpose of the radar CFF Zone symbol is to graphically display to commanders and operators the geometry used by fire support radar's to designate specific areas from which a call for fire would be automatically generated if enemy indirect fires are detected. Incorporation into MIL STD 2525B, which will be used by JMTK and GSD, will allow the symbols to be transmitted/received by all battlefield system. The CFF Zone is a required symbol for use in the COP/CTP to be shared across the battlefield. The development of the COP/CTP is required of all component systems. Fire Support systems are the producer of the radar Call For Fire Zone for the COP/CTP. Fire Support systems will retain this capability for fielding throughout the Army and USMC.

OPERATIONAL DESCRIPTION

In general, the radar CFF Zone symbol is used by fire support radar to designate specific areas from which a call for fire would be automatically generated if enemy indirect fires were detected. The call for fire would be generated and sent to Fire Support systems. A minimum of three (3) point locations is required to graphically display radar CFF Zones. The minimum information required to interoperate with another system is defined below.

IMPLEMENTATION

Description: Fire Support, Area, Call For Fire (CFF) Zone

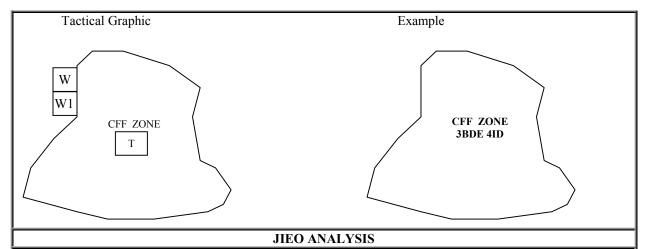
Parameters:

- 1. Anchor Points. This graphic requires a minimum of three anchor points to define the boundary of the area. Add as many points as necessary to accurately reflect the area's size and shape.
- 2.Size/Shape. Determined by the anchor points. The information fields should be moveable and scaleable within the area.
- 3. Orientation. Not applicable.

Fixed/Dynamic: Dynamic

Hierarchy: 2.X.4.3.13

Symbol ID: G*F*ACFFZ-***X



OVERVIEW:

The proposed CP fulfills a need expressed by the Army for a standard Call For Fire Zone (CFFZ) Symbol.

The following changes must be made to the standard to incorporate the proposed changes:

1.Revise table B-III, C2 Symbology: Military Operations symbol ID codes, to include the necessary information for the CFFZ symbol.

2. Revise figure B-17, Fire Support, to include the CFFZ symbol.

3. Revise table B-IV, C2 Symbology: Military Operations set, to include a generic and example symbol for CFFZ.

POTENTIAL CONFLICTS WITH EXISTING SYMBOLOGY:

The Symbol ID as recommended above may be interpreted as a symbol hierarchy subcategory of the Airspace Coordination Area (ACA). However, looking at the hierarchy number of ACA and the recommended hierarchy number for CFFZ the symbols are on the same hierarchical level. The problem in this case exists specifically within the Function ID. This is because the first two characters of each symbol's function ID are identical. The table below illustrates this point.

Call For Fire Zone (CFFZ)	2.	X.4.3.13		Airspace Coordination Area (ACA)	2		
		Function ID				Function ID	
Symbol ID	G*F*	AC FF Z-	****X	Symbol ID	G*F*	<u>AC</u>	****X

It is possible for two symbols to have identical function IDs within their respective symbol IDs but only if each has a different coding scheme and/or category code. Thus creating a unique symbol ID. Otherwise, symbols from the same symbol set and category must have unique function IDs to differentiate the two symbols. Each character of the function ID represents a subcategory for each hierarchy category. In the example above the "A" of the function ID represents the Fire Support subcategory "Areas." The "C" has already been assigned to the previously approved Fire Support / Areas / Airspace Coordination Area (ACA) symbol. Therefore, the second character in a Fire Support / Areas / CFFZ function ID cannot be "C."

A solution is not recommended here due to the fact that this change proposal is one of 43 change proposals submitted by the Army, all of which deal with the Fire Support category of C2 Symbology: Military Operations symbol set. This situation required a broader scope of analysis to deconflict the proposed symbols with the existing symbols. For possible solutions to this conflict, see the Fire Support Hierarchy Analysis located on the Change Proposal/Coordination page of the symbology web site.

CONFORMANCE TO SYMBOL GUIDELINES:

The proposed CFFZ symbol follows the rules concerning composition, construction, display, and transmission previously set forth in the standard.

ADEQUACY AND IMPACT ON OTHER PROGRAMS:

None known.

C/S/A COMMENTS

DECISION NOTICE

Approved at SSMC 2-01 with the following changes:

Restructure the entire 2.X.4 (Fire Support) hierarchy IAW the Fire Support Hierarchy Analysis, Change Option C with modification 1 (does not include graphics which are still pending review and approval [MIL00-11 through MIL00-44]). See Attachment A.

Tasks:

1. Modify Figure B-17 to reflect new hierarchy structure (Figure B-17 becomes Figures B-17.1 and B-17.2) and addition of new Fire Support graphics.

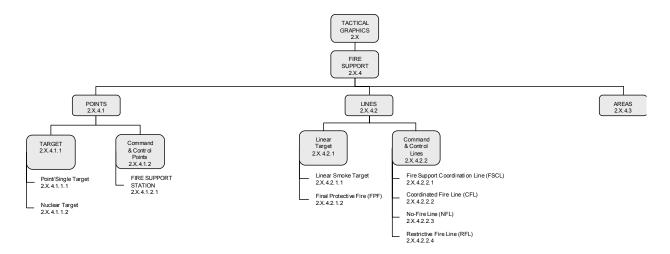


Figure B-17.1. Fire Support.

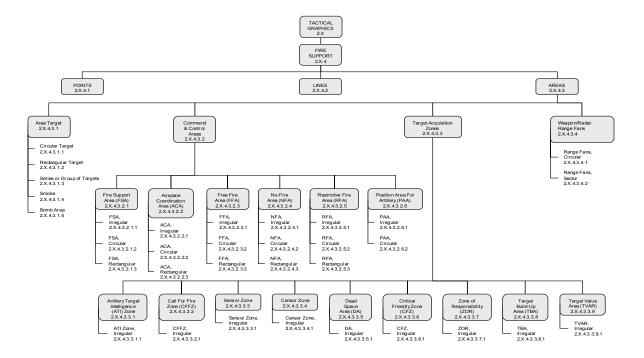


Figure B-17.2. Fire support.

2. Modify Table B-III to reflect restructured hierarchy numbers, provide new symbol IDs for restructured graphics and addition of new graphics' hierarchy numbers and symbol IDs.

2.X.4.1	HIERARCHY	CODE SCHEME	AFFILIATION	CATEGORY	STATUS		FUNCTION ID		SIZE/MOBILITY	COUNTRY CODE	ORDER OF BATTLE	DESCRIPTION
2.X.4.1.1											E	
2.X.4.1.1	2.X.4	G	*	F	*				**	**	Х	FIRE SUPPORT
2.X.4.1.1.1	2.X.4.1	G	*	F	*	P-			**	**	Х	POINT
2.X.4.1.2	2.X.4.1.1	G	*	F	*	PT			**	**	Χ	
2.X.4.1.2	2.X.4.1.1.1	G	*	F	*	PT	S-		**	**	Χ	POINT/SINGLE TARGET
2.X.4.1.2.1	2.X.4.1.1.2	G	*	F	*	PT	N-		**	**	Χ	NUCLEAR TARGET
2.X.4.1.2.1			*		*				**	**		
2.X.4.2.1			*	F	*		F-		**	**		
2.X.4.2.1.1 G		-	*	F	*	L-			**	**	Χ	
2.X.4.2.1.1 G		G	*		*	LT			**	**		
2.X.4.2.1.2 G			*		*		S-		**	**		
Z.X.4.2.2 G			*		*				**	**		
2.X.4.2.1			*		*				**	**		
Z.X.4.2.2.2 G			*						**	**		
2.X.4.2.2.3									**			
2.X.4.2.2.4 G									**			
2.X.4.3.1												
2.X.4.3.1						_						
2.X.4.3.1.1												
2.X.4.3.1.2												
2.X.4.3.1.3												
2.X.4.3.1.4												
2.X.4.3.1.5		G									Χ	
2.X.4.3.2.1	2.X.4.3.1.4	G	*	F	*	ΑT	S-		**	**	Χ	
2.X.4.3.2.1	2.X.4.3.1.5	G	*	F	*	AT	B-		**	**	Χ	BOMB AREA
2.X.4.3.2.1	2.X.4.3.2	G	*	F	*	AC			**	**	Χ	COMMAND AND CONTROL
2.X.4.3.2.2		G	*	F	*		S-		**	**	Χ	
2.X.4.3.2.3	2.X.4.3.2.2	G	*	F	*	AC	A-		**	**	Х	
2.X.4.3.2.4	2.X.4.3.2.3		*		*				**	**		
2.X.4.3.2.5		G	*	F	*		N-		**	**		
2.X.4.3.2.6			*		*				**	**		
2.X.4.3.3 G * F * AZ ** X TARGET ACQUISITION ZONES 2.X.4.3.3.1 G * F * AZ I- ** X ARTILLERY TARGET INTELLIGENCE (ATI) ZONE, IRREGULAR 2.X.4.3.3.1 G * F * AZ X- ** X CALL FOR FIRE ZONE (CFFZ) 2.X.4.3.3.2.1 G * F * AZ XI ** X CALL FOR FIRE ZONE (CFFZ), IRREGULAR 2.X.4.3.3.3 G * F * AZ SI ** X SENSOR ZONE 2.X.4.3.3.4.1 G * F * AZ SI ** X X SENSOR ZONE, IRREGULAR 2.X.4.3.3.5.1 G * F * AZ CI ** X X CENSOR ZONE, IRREGULAR 2.X.4.3.3.5.1 G * F * AZ CI ** X X DEAD SPACE AREA (DA), IRREGULAR			*		*				**	**		
2.X.4.3.3.1			*		*		-		**	**		
ZONE ZONE ZONE ZONE ZONE ZONE ZONE ZONE ZONE, IRREGULAR ZONE, IR		-	*		*				**	**		
2.X.4.3.3.1.1	2.7.4.0.0.1	0		'		72	1-				^	
2.X.4.3.3.2	2.X.4.3.3.1.1	G	*	F	*	AZ	II		**	**	X	ARTILLERY TARGET INTELLIGENCE (ATI)
2.X.4.3.3.2.1 G * F * AZ XI - ** ** X CALL FOR FIRE ZONE (CFFZ), IRREGULAR 2.X.4.3.3.3.1 G * F * AZ SI - ** X SENSOR ZONE, IRREGULAR 2.X.4.3.3.4.1 G * F * AZ CI - ** * X CENSOR ZONE, IRREGULAR 2.X.4.3.3.5.1 G * F * AZ CI - ** X CENSOR ZONE, IRREGULAR 2.X.4.3.3.5.1 G * F * AZ D- ** X DEAD SPACE AREA (DA) 2.X.4.3.3.6.1 G * F * AZ DI ** X DEAD SPACE AREA (DA), IRREGULAR 2.X.4.3.3.6.1 G * F * AZ DI ** X DEAD SPACE AREA (DA), IRREGULAR 2.X.4.3.3.7.1 G * F * AZ FI ** X CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR	2 \ 4 2 2 2	_	*	Е	*	۸.7	~		**	**	~	
2.X.4.3.3.3 G * F * AZ S- ** X SENSOR ZONE 2.X.4.3.3.3.1 G * F * AZ SI ** X SENSOR ZONE, IRREGULAR 2.X.4.3.3.4.1 G * F * AZ CI ** X CENSOR ZONE, IRREGULAR 2.X.4.3.3.5.1 G * F * AZ D- ** X DEAD SPACE AREA (DA) 2.X.4.3.3.6.1 G * F * AZ DI ** X DEAD SPACE AREA (DA), IRREGULAR 2.X.4.3.3.6.1 G * F * AZ DI ** X DEAD SPACE AREA (DA), IRREGULAR 2.X.4.3.3.6.1 G * F * AZ F- ** X CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR 2.X.4.3.3.7.1 G * F * AZ FI ** * X CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR 2.X.4.3.3.7.1 <td></td> <td></td> <td>*</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td>**</td> <td>**</td> <td></td> <td>CALL FOR FIRE ZONE (CEEZ) IDDECLILAD</td>			*		*				**	**		CALL FOR FIRE ZONE (CEEZ) IDDECLILAD
2.X.4.3.3.3.1			*		*							
2.X.4.3.3.4			<u> </u>									
2.X.4.3.3.4.1			Ļ	_				_			_	
2.X.4.3.3.5			Ļ		<u> </u>							
2.X.4.3.3.5.1 G * F * AZ DI - ** X DEAD SPACE AREA (DA), IRREGULAR 2.X.4.3.3.6.1 G * F * AZ F- ** X CRITICAL FRIENDLY ZONE (CFZ) 2.X.4.3.3.6.1 G * F * AZ FI ** * X CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR 2.X.4.3.3.7.1 G * F * AZ Z- ** * X ZONE OF RESPONSIBILITY (ZOR), IRREGULAR			<u> </u>	_	<u> </u>						_	
2.X.4.3.3.6 G * F * AZ F ** X CRITICAL FRIENDLY ZONE (CFZ) 2.X.4.3.3.6.1 G * F * AZ FI ** X CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR 2.X.4.3.3.7 G * F * AZ Z ** X ZONE OF RESPONSIBILITY (ZOR) 2.X.4.3.3.7.1 G * F * AZ ZI ** X ZONE OF RESPONSIBILITY (ZOR), IRREGULAR			*									
2.X.4.3.3.6.1			*	_								
2.X.4.3.3.7	2.X.4.3.3.6		*	F							Х	, ,
2.X.4.3.3.7.1 G * F * AZ ZI ** X ZONE OF RESPONSIBILITY (ZOR), IRREGULAR	2.X.4.3.3.6.1	G	*	F		AZ	FI				X	CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR
2.X.4.3.3.7.1 G * F * AZ ZI ** X ZONE OF RESPONSIBILITY (ZOR), IRREGULAR	2.X.4.3.3.7	G	*	F	*	ΑZ	Z-		**	**	X	ZONE OF RESPONSIBILITY (ZOR)
		G	*	F	*	AZ	ZI		**	**	X	ZONE OF RESPONSIBILITY (ZOR), IRREGULAR
2.٨.4.3.3.0 G F AZ D- "" X TARGET BUILD-UP AREA (TBA)	2.X.4.3.3.8	G	*	F	*	ΑZ	B-		**	**	X	TARGET BUILD-UP AREA (TBA)

HIERARCHY	CODE SCHEME	AFFILIATION	CATEGORY	STATUS		FUNCTION ID	SIZE/MOBILITY	COUNTRY CODE	ORDER OF BATTLE	DESCRIPTION
2.X.4.3.3.8.1	G	*	F	*	AZ	BI	 **	**	X	TARGET BUILD-UP AREA (TBA), IRREGULAR
2.X.4.3.3.9	G	*	F	*	ΑZ	V-	 **	**	Χ	TARGET VALUE AREA (TVAR)
2.X.4.3.3.9.1	G	*	F	*	AZ	<mark>VI</mark>	 **	**	X	TARGET VALUE AREA (TVAR), IRREGULAR
2.X.4.3.4	G	*	F	*	AX		 **	**	Χ	WEAPON/RADAR RANGE FAN
2.X.4.3.4.1	G	*	F	*	AX	C-	 **	**	Χ	WEAPON/RADAR RANGE FAN, CIRCULAR
2.X.4.3.4.2	G	*	F	*	AX	S-	 **	**	Χ	WEAPON/RADAR RANGE FAN, SECTOR

^{3.} Modify and amend Table B-IV as needed to agree with Figure B-17.1, B-17.2 and Table B-III as shown above.